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CLAIMS

We claim:

1. A system for managing a procedure in a blood component collection facility, the system comprising:

- 5 a blood component donor identifier corresponding to a blood component donor, a blood component collection instrument for collecting a blood component from the blood component donor, the blood component collection instrument having a blood component collection instrument identifier;
- a system server being operably connected to the blood component collection instrument, the system server running a blood component collection application defining at least a portion of a blood component collection process, the system server comprises a memory for storing the blood component donor identifier wherein the blood collection component application further associates the blood component donor identifier with the blood component collection instrument identifier; and,
- 10 a management interface having a reader and being operably connected to the system server for transmitting the blood component donor identifier and the blood component collection instrument identifier to the system server.
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2. The system of Claim 1 further comprising:

- 20 a blood component collection kit for interfacing the blood component donor with the blood component collection instrument, the blood component collection kit having a blood component collection kit identifier wherein the blood component collection kit identifier can be transmitted to the system server for storing the blood component collection kit identifier in the memory and for associating the blood component collection kit identifier with the blood component donor identifier or the blood collection instrument identifier.
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3. The system of Claim 2 further comprising:

- an operator having an operator identifier wherein the operator communicates with the system server by utilizing the management interface to transmit the operator identifier to the system server for recording the operator's involvement with the blood component collection process.
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4. The system of Claim 1 wherein the management interface utilizes radio frequency to transmit to the system server.

5 5. The system of Claim 1 further comprising:
a system communication conduit for operably connecting the system server to the blood component collection instrument; and,
a system communication protocol for facilitating communication on the communication conduit between the system server and the blood component collection instrument.

10 6. The system of Claim 5 wherein the system communication protocol is Ethernet.

7. The system of Claim 5 wherein the system communication protocol is TCP/IP.

15 8. The system of Claim 5 further comprising:
a network server being operably connected to the system server via a network communication conduit; and
a web interface being operably connected to the system server for facilitating access to the blood component collection process, wherein the management interface
20 receives data from the system server.

9. The system of Claim 1 including a web server being operably connected to the system server and operably responsive to a web browser wherein the information stored in the system server can be accessed.

25 10. The system of Claim 3 wherein the reader comprises a touch pad for receiving the operator identifier, the blood component collection instrument identifier, the blood component collection kit identifier or the blood component donor identifier.

30 11. The system of Claim 3 wherein the reader comprises a keypad for receiving the operator identifier, the blood component collection instrument identifier, the blood component collection kit identifier or the blood component donor identifier.

12. The system of Claim 3 wherein the reader comprises an optical scanner for receiving the operator identifier, the blood component collection instrument identifier, the blood component collection kit identifier or the blood component donor identifier.

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13. The system of Claim 3 wherein the reader comprises a magnetic scanner for receiving the operator identifier, the blood component collection instrument identifier, the blood component collection kit identifier or the blood component donor identifier.

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14. A system for managing one or more procedures in a blood component collection facility, the system comprising:

a blood component collection instrument having a blood component collection instrument identifier;

15 a blood component collection kit having a blood component collection kit identifier;

a blood component donor identifier corresponding to a blood component donor; a management interface comprising a transmitter for transmitting a communication signal wherein the communication signal includes the blood component donor identifier;

20 a receiver for receiving the communication signal from the management interface; a system server comprising an operating system being operably responsive to the blood component collection instrument and the management interface, the operating system being capable of compiling the blood component donor identifier, the blood component collection instrument and the blood component collection kit and associating the blood component donor identifier, the blood component collection instrument and the

25 blood component collection kit with each other; and, a communication conduit operably interfacing the system server with the blood component collection instrument wherein the operating system monitors a blood component collection procedure.

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15. The system of Claim 14 further comprising:

an operator having an operator identifier wherein the operator interacts with the system server by utilizing the management interface to transmit the operator identifier to

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the system server for recording the operator's involvement with a blood component collection process.

16. The system of Claim 14 further comprising:

- 5 a web interface being operably connected to the system server for facilitating access to the system server;
a network server being operably connected to the system server via the communication conduit; and,
a communication protocol for facilitating communication on the communication
10 conduit between the system server and the network server.

17. The system of Claim 16 wherein the communication protocol is Ethernet.

18. The system of Claim 16 wherein the communication protocol is TCP/IP.

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19. The system of Claim 14 wherein the communication signal is a radio frequency.

20. The system of Claim 14 wherein the management interface comprises a
20 receiver a communication signal transmitted from the system server, the received wireless communication signal providing blood component collection facility information.

21. The system of Claim 14 wherein the management interface comprises a reader for entering a blood component collection facility identifier.

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22. The system of Claim 21 wherein the reader for entering comprises a touch pad for receiving the operator identifier, the blood component collection instrument identifier or the blood component donor identifier.

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23. The system of Claim 21 wherein the reader for entering comprises a keypad for receiving the operator identifier, the blood component collection instrument identifier or the blood component donor identifier.

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24. The system of Claim 21 wherein the reader for entering comprises an optical scanner for receiving the operator identifier, the blood component collection instrument identifier or the blood component donor identifier.

5 25. The system of Claim 21 wherein the reader for entering comprises a magnetic scanner for receiving the operator identifier, the blood component collection instrument or the blood component donor identifier.

10 26. A method for managing one or more procedures in a blood component collection facility, the method comprising the steps of:

providing a blood component collection instrument;

providing a system server having an operating system and a memory, the system server defining a blood component collection process and being operably connected to the blood component collection instrument;

15 providing a blood component donor identifier correlating to a blood component donor;

transmitting the blood component donor identifier to the system server;

storing the blood component donor identifier in the memory; and,

20 associating the blood component donor identifier with the blood component collection instrument.

27. The method of Claim 26 further comprising:

providing a blood component collection kit having a blood component collection kit identifier;

25 transmitting the blood component collection kit identifier to the system server;

storing the blood component collection kit identifier in the memory; and,

associating the blood component donor identifier with the blood component collection kit.

30 28. The method of Claim 27 further comprising:

providing an operator identifier associated with an operator;

transmitting the operator identifier to the system server to indicate the operator's

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involvement with a blood component collection procedure.

29. The method of Claim 28 further comprising:

providing a communication conduit;

5 providing a network server being operably connected to the system server via the communication conduit;

providing a communication protocol for facilitating communication on the communication conduit between the system server and the network server; and,

10 displaying information associated with the blood component donor identifier and stored in the memory of the system server.

30. The method of Claim 29 further comprising:

providing a web server being operably connected to the system server for allowing access to the information stored on the system server.

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31. A method for managing one or more procedures in a blood component collection facility, the method comprising the steps of:

providing a blood component collection instrument having a blood component collection instrument identifier;

20 providing a system server having an operating system and a memory, the system server being operably connected to the blood component collection instrument;

providing a blood component donor identifier, the blood component donor identifier being assigned to a blood component donor;

25 providing a management interface having a reader and being operably connected to the system server;

reading the blood component donor identifier into the management interface;

transmitting the blood component donor identifier to the system server; and,

storing the blood component donor identifier within the memory wherein .

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32. The method of Claim 31 further comprising:

assessing a biological characteristic of the blood component donor;

transmitting the biological characteristic to the system server;

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storing the biological characteristic in the system server;
 associating the blood component donor identifier with the blood component
 collection instrument;
 calculating a blood component donor nomogram in response to the biological
 5 characteristic;
 storing the blood component donor nomogram in the memory; and,
 associating the blood component donor nomogram with the donor identifier

32. A medium readable by a computer, the medium having an operating interface
 10 for managing a blood component collection facility comprising an operator having an
 operator identifier, a blood component collection instrument, a blood component
 collection kit and a system server having a memory and being operably connected to the
 blood component collection instrument wherein the blood component collection facility
 cooperates with a blood component donor having a blood component donor identifier, the
 15 medium comprising:
 a first segment for entering a blood component donor identifier;
 a second segment for storing the blood component donor identifier in a system
 server;
 a third segment for entering an operator identifier;
 20 a fourth segment for storing the operator identifier in the system server;
 a fifth segment for storing an interaction of the blood component donor with the
 blood component collection facility; and,
 a sixth segment for storing an interaction of the operator with the blood
 component collection facility.

25 33. The medium of Claim 32 further comprising:
 a seventh segment for receiving a biological characteristic of the blood component
 donor;
 a eighth segment for storing the biological characteristic; and,
 30 a ninth segment for associating the biological characteristic with the blood
 component donor

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34. The medium of Claim 33 further comprising:
a tenth segment for calculating a blood component donor monogram in response
to the biological characteristic;
an eleventh segment for storing the blood component donor monogram; and,
an twelfth segment for associating the blood component donor monogram with
the blood component donor identifier.

35. The medium of Claim 34 further comprising:
a thirteenth segment for storing an interaction of the operator with a blood
component collection instrument;
an fourteenth segment for storing an interaction of the blood component donor
with the blood component collection instrument; and,
a fifteenth segment for storing an interaction of the operator with the blood
component donor.

36. The medium of Claim 35 further comprising:
a sixteenth segment for generating a report responsive to the compilation of blood
component collection facility information stored in the memory wherein statistics, trends
and details on the blood component collection facility can be obtained.

37. The medium of Claim 36 further comprising:
a seventeenth segment for displaying blood component collection facility
information.